

P#109  
10/16/2001 #7Serial Number: 09/858,681CRF Processing Date: 10/16/2001  
Edited by: JK  
Verified by: DC (STIC stat) Changed a file from non-ASCII to ASCII**ENTERED** Changed the margins in cases where the sequence text was wrapped down to the next line. Edited a formal error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_ Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: .. Deleted extra, invalid, headings used by an applicant, specifically: Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  
 page numbers throughout text;  other invalid text, such as \_\_\_\_\_ Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: Other:Seq 2 - corrected amino acid nos.

Examiner: The above corrections must be communicated to the applicant in the first Office Action! DO NOT send a copy of this form.

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/856,681

DATE: 10/16/2001  
TIME: 18:00:22

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Output Set: N:\CRF3\10162001\I856681.raw

3 <110> APPLICANT: Behl, Christian  
4 Klostermann, Andreas  
6 <120> TITLE OF INVENTION: Human semaphorin 6A-1 (SEMA6A-A), a gene involved  
7 in neuronal development and regeneration mechanisms  
8 during apoptosis, and its use as a potential drug target  
10 <130> FILE REFERENCE: 48498-258443  
12 <140> CURRENT APPLICATION NUMBER: 09/856,681  
13 <141> CURRENT FILING DATE: 2001-05-22  
15 <150> PRIOR APPLICATION NUMBER: PCT/EP99/09215  
16 <151> PRIOR FILING DATE: 1999-11-26  
18 <150> PRIOR APPLICATION NUMBER: 98122441.3  
19 <151> PRIOR FILING DATE: 1998-11-26  
21 <160> NUMBER OF SEQ ID NOS: 7  
23 <170> SOFTWARE: PatentIn Ver. 2.1  
25 <210> SEQ ID NO: 1  
26 <211> LENGTH: 3093  
27 <212> TYPE: DNA  
28 <213> ORGANISM: Homo sapiens  
30 <220> FEATURE:  
31 <221> NAME/KEY: CDS  
32 <222> LOCATION: (1)..(3093)  
34 <400> SEQUENCE: 1 48  
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37 1 5 10 15  
39 ggg gct ggt ttc cca gaa gat tct gag cca atc agt att tcg cat ggc 96  
40 Gly Ala Gly Phe Pro Glu Asp Ser Glu Pro Ile Ser Ile Ser His Gly  
41 20 25 30  
43 aac tat aca aaa cag tat ccg gtg ttt gtg ggc cac aag cca gga cgg 144  
44 Asn Tyr Thr Lys Gln Tyr Pro Val Phe Val Gly His Lys Pro Gly Arg  
45 35 40 45  
47 aac acc aca cag agg cac agg ctg gac atc cag atg att atg atc atg 192  
48 Asn Thr Thr Gln Arg His Arg Leu Asp Ile Gln Met Ile Met Ile Met  
49 50 55 60  
51 aac gga acc ctc tac att gct gct agg gac cat att tat act gtt gat 240  
52 Asn Gly Thr Leu Tyr Ile Ala Ala Arg Asp His Ile Tyr Thr Val Asp  
53 65 70 75 80  
55 ata gac aca tca cac acg gaa att tat tgt agc aaa aaa ctg aca 288  
56 Ile Asp Thr Ser His Thr Glu Glu Ile Tyr Cys Ser Lys Lys Leu Thr  
57 85 90 95  
60 tgg aaa tct aga cag gcc gat gta gac aca tgc aga atg aag gga aaa 336  
61 Trp Lys Ser Arg Gln Ala Asp Val Asp Thr Cys Arg Met Lys Gly Lys  
62 100 105 110  
64 cat aag gat gag tgc cac aac ttt att aaa gtt ctt cta aag aaa aac 384  
65 His Lys Asp Glu Cys His Asn Phe Ile Lys Val Leu Leu Lys Lys Asn  
66 115 120 125  
68 gat gat gca ttg ttt gtc tgt gga act aat gcc ttc aac cct tcc tgc 432

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73	Arg	Asn	Tyr	Lys	Met	Asp	Thr	Leu	Glu	Pro	Phe	Gly	Asp	Glu	Phe	Ser	
74	145				150				155							160	
76	gga	atg	gcc	aga	tgc	cca	tat	gat	gcc	aaa	cat	gcc	aac	gtt	gca	ctg	
77	Gly	Met	Ala	Arg	Cys	Pro	Tyr	Asp	Ala	Lys	His	Ala	Asn	Val	Ala	Leu	
78	165				170				175							528	
80	ttt	gca	gat	gga	aaa	cta	tac	tca	gcc	aca	gtg	act	gac	ttc	ctt	gcc	
81	Phe	Ala	Asp	Gly	Lys	Leu	Tyr	Ser	Ala	Thr	Val	Thr	Asp	Phe	Leu	Ala	
82	180				185				190							624	
84	att	gac	gca	gtc	att	tac	cgg	agt	ctt	gga	gaa	agc	cct	acc	ctg	cg	
85	Ile	Asp	Ala	Val	Ile	Tyr	Arg	Ser	Leu	Gly	Glu	Ser	Pro	Thr	Leu	Arg	
86	195				200				205								
88	acc	gtc	aag	cac	cat	tca	aaa	tgg	ttg	aaa	gaa	cca	tac	ttt	gtt	caa	
89	Thr	Val	Lys	His	Asp	Ser	Lys	Trp	Leu	Lys	Glu	Pro	Tyr	Phe	Val	Gln	
90	210				215				220							672	
92	gcc	gtg	gat	tac	gga	gat	tat	atc	tac	ttc	ttc	ttc	agg	gaa	ata	gca	
93	Ala	Val	Asp	Tyr	Gly	Asp	Tyr	Ile	Tyr	Phe	Phe	Phe	Arg	Glu	Ile	Ala	
94	225				230				235				240				
96	gtg	gag	tat	aac	acc	atg	gga	aag	gta	gtt	ttc	cca	aga	gtg	gct	cag	
97	Val	Glu	Tyr	Asn	Thr	Met	Gly	Lys	Val	Val	Phe	Pro	Arg	Val	Ala	Gln	
98	245				250				255							768	
100	gtt	tgt	aag	aat	gat	atg	gga	gga	tct	caa	aga	gtc	ctg	gag	aaa	cag	
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102	260				265				270							816	
104	tgg	acg	tcg	ttc	ctg	aag	gcf	cgc	ttg	aac	tgc	tca	gtt	cct	gga	gac	
105	Trp	Thr	Ser	Phe	Leu	Lys	Ala	Arg	Leu	Asn	Cys	Ser	Val	Pro	Gly	Asp	
106	275				280				285							912	
108	tct	cat	ttt	tat	ttc	aac	att	ctc	cag	gca	gtt	aca	gat	gtg	att	cgt	
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112	atc	aac	ggg	cgt	gat	gtt	gtc	ctg	gca	acg	ttt	tct	aca	cct	tat	aac	
113	Ile	Asn	Gly	Arg	Asp	Val	Val	Leu	Ala	Thr	Phe	Ser	Thr	Pro	Tyr	Asn	
114	305				310				315				320			1008	
116	agc	atc	cct	ggg	tct	gca	gtc	tgt	gcc	tat	gac	atg	ttt	cct	gat	ttc	acc
117	Ser	Ile	Pro	Gly	Ser	Ala	Val	Cys	Ala	Tyr	Asp	Met	Leu	Asp	Ile	Ala	
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120	agt	gtt	ttt	act	ggg	aga	tcc	aag	gaa	cag	aag	tct	cct	gat	tcc	acc	
121	Ser	Val	Phe	Thr	Gly	Arg	Phe	Lys	Glu	Gln	Lys	Ser	Pro	Asp	Ser	Thr	
122	340				345				350							1104	
124	tgg	aca	cca	gtt	cct	gat	gaa	cga	gtt	cct	aag	ccc	agg	cca	ggt	tgc	
125	Trp	Thr	Pro	Val	Pro	Asp	Glu	Arg	Val	Pro	Lys	Pro	Arg	Pro	Gly	Cys	
126	355				360				365							1152	
128	tgt	gtc	ggc	tca	tcc	tcc	tta	gaa	aga	tat	gca	acc	tcc	aat	gag	ttc	
129	Cys	Ala	Gly	Ser	Ser	Ser	Leu	Glu	Arg	Tyr	Ala	Thr	Ser	Asn	Glu	Phe	
130	370				375				380							1200	
132	cct	gat	gat	acc	ctg	aac	ttc	atc	aag	acg	cac	ccg	ctc	atg	gat	gag	
133	Pro	Asp	Asp	Thr	Leu	Asn	Phe	Ile	Lys	Thr	His	Pro	Leu	Met	Asp	Glu	

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138	405								410					415			1296
140	aga	tac	cgc	ctt	acc	aaa	att	gca	gtg	gac	aca	gct	gct	ggg	cca	tat	
141	Arg	Tyr	Arg	Leu	Thr	Lys	Ile	Ala	Val	Asp	Thr	Ala	Ala	Gly	Pro	Tyr	
142	420								425					430			1344
144	cag	aat	cac	act	gtg	gtt	ttt	ctg	gga	tca	gag	aag	gga	atc	atc	ttg	
145	Gln	Asn	His	Thr	Val	Val	Phe	Leu	Gly	Ser	Glu	Lys	Gly	Ile	Ile	Leu	
146	435								440					445			1392
148	aag	ttt	ttg	gcc	aga	ata	gga	aat	agt	ggt	ttt	cta	aat	gac	agc	ctt	
149	Lys	Phe	Leu	Ala	Arg	Ile	Gly	Asn	Ser	Gly	Phe	Leu	Asn	Asp	Ser	Leu	
150	450								455					460			1440
152	ttc	ctg	gag	gag	atg	agt	gtt	tac	aac	tct	gaa	aaa	tgc	agc	tat	gat	
153	Phe	Leu	Glu	Glu	Met	Ser	Val	Tyr	Asn	Ser	Glu	Lys	Cys	Ser	Tyr	Asp	
154	465								470					475			1488
156	gga	gtc	gaa	gac	aaa	agg	atc	atg	ggc	atg	cag	ctg	gac	aga	gca	agc	
157	Gly	Val	Glu	Asp	Lys	Arg	Ile	Met	Gly	Met	Gln	Leu	Asp	Arg	Ala	Ser	
158	485								490					495			1536
160	agc	tct	ctg	tat	gtt	gcf	ttc	tct	acc	tgt	gtg	ata	aag	gtt	ccc	ctt	
161	Ser	Ser	Leu	Tyr	Val	Ala	Phe	Ser	Thr	Cys	Val	Ile	Lys	Val	Pro	Leu	
162	500								505					510			1584
164	ggc	cgg	tgt	gaa	cga	cat	ggg	aag	tgt	aaa	aaa	acc	tgt	att	gcc	tcc	
165	Gly	Arg	Cys	Glu	Arg	His	Gly	Lys	Cys	Lys	Lys	Thr	Cys	Ile	Ala	Ser	
166	515								520					525			1632
168	aga	gac	cca	tat	tgt	gga	tgg	ata	aag	gaa	ggg	gtt	gcc	tgc	agc	cat	
169	Arg	Asp	Pro	Tyr	Cys	Gly	Trp	Ile	Lys	Glu	Gly	Gly	Ala	Cys	Ser	His	
170	530								535					540			1680
172	tta	tca	ccc	aac	agc	aga	ctg	act	ttt	gag	cag	gac	ata	gag	cgt	ggc	
173	Leu	Ser	Pro	Asn	Ser	Arg	Leu	Thr	Phe	Glu	Gln	Asp	Ile	Glu	Arg	Gly	
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177	aat	aca	gat	ggg	ctg	ggg	gac	tgt	cac	aat	tcc	ttt	gtg	gca	ctg	aat	
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182	Gly	His	Ser	Ser	Leu	Leu	Pro	Ser	Thr	Thr	Thr	Thr	Ser	Asp	Ser	Thr	
183	580								585					590			1824
185	gct	caa	gag	ggg	tat	gag	tct	agg	gga	gga	atg	ctg	gac	tgg	aag	cat	
186	Ala	Gln	Glu	Gly	Tyr	Glu	Ser	Arg	Gly	Gly	Met	Leu	Asp	Trp	Lys	His	
187	595								600					605			1872
189	ctg	ctt	gac	tca	cct	gac	agc	aca	gac	cct	ttg	ggg	gca	gtg	tct	tcc	
190	Leu	Leu	Asp	Ser	Pro	Asp	Ser	Thr	Asp	Pro	Leu	Gly	Ala	Val	Ser	Ser	
191	610								615					620			1920
193	cat	aat	cac	caa	gac	aag	gga	gtg	att	cgg	gaa	agt	tac	ctc	aaa		
194	His	Asn	His	Gln	Asp	Lys	Lys	Gly	Val	Ile	Arg	Glu	Ser	Tyr	Leu	Lys	
195	625								630					635			1968
197	ggc	cac	gac	cag	ctg	gtt	ccc	gtc	acc	ctc	ttg	gcc	att	gca	gtc	atc	
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**RAW SEQUENCE LISTING**  
**PATENT APPLICATION:** US/09/856,681

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**Output Set: N:\CRF3\10162001\I856681.raw**

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210	Lys	Glu	Leu	Thr	His	Ser	Arg	Arg	Gly	Ser	Met	Ser	Ser	Val	Thr	Lys	
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219					725				730						735		
221	aac	acg	gcc	aag	atg	ctc	att	aaa	gca	gac	cag	cac	ctg	gac	ctg		2256
222	Asn	Thr	Ala	Lys	Met	Leu	Ile	Lys	Ala	Asp	Gln	His	His	Leu	Asp	Leu	
223					740				745						750		
225	acg	gcc	ctc	ccc	acc	cca	gag	tca	acc	cca	acg	ctg	cag	cag	aag	cg	2304
226	Thr	Ala	Leu	Pro	Thr	Pro	Glu	Ser	Thr	Pro	Thr	Leu	Gln	Gln	Lys	Arg	
227					755				760						765		
229	aag	ccc	agc	cgc	ggc	agc	cgc	gag	tgg	gag	agg	aac	cag	aac	ctc	atc	2352
230	Lys	Pro	Ser	Arg	Gly	Ser	Arg	Glu	Trp	Glu	Arg	Asn	Gln	Asn	Leu	Ile	
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234	Asn	Ala	Cys	Thr	Lys	Asp	Met	Pro	Pro	Met	Gly	Ser	Pro	Val	Ile	Pro	
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237	acg	gac	ctg	ccc	ctg	cgg	gcc	tcc	ccc	agc	cac	atc	ccc	agc	gtg	gtg	2448
238	Thr	Asp	Leu	Pro	Leu	Arg	Ala	Ser	Pro	Ser	His	Ile	Pro	Ser	Val	Val	
239					805				810						815		
241	gtc	ctg	ccc	atc	acg	cag	ggc	tac	cag	cat	gag	tac	gtg	gac	cag		2496
242	Val	Leu	Pro	Ile	Thr	Gln	Gln	Gly	Tyr	Gln	His	Glu	Tyr	Val	Asp	Gln	
243					820				825						830		
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250	Thr	Leu	Glu	Tyr	Lys	Thr	Ile	Lys	Glu	His	Leu	Ser	Ser	Lys	Ser	Pro	
251					850				855						860		
253	aac	cat	ggg	gtg	aac	ctt	gtg	gag	aac	ctg	gac	agc	ctg	ccc	ccc	aaa	2640
254	Asn	His	Gly	Val	Asn	Leu	Val	Glu	Asn	Leu	Asp	Ser	Leu	Pro	Pro	Lys	
255					865				870						880		
257	gtt	cca	cag	cgg	gag	gcc	tcc	ctg	ggt	ccc	ccg	gga	gcc	tcc	ctg	tct	2688
258	Val	Pro	Gln	Arg	Glu	Ala	Ser	Leu	Gly	Pro	Pro	Gly	Ala	Ser	Leu	Ser	
259					885				890						895		
261	cag	acc	ggt	cta	agc	aag	cgg	ctg	gaa	atg	cac	cac	tcc	tct	tcc	tac	2736
262	Gln	Thr	Gly	Leu	Ser	Lys	Arg	Leu	Glu	Met	His	His	Ser	Ser	Ser	Tyr	
263					900				905						910		
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270	His	Gln	Ala	Thr	Thr	Leu	Lys	Arg	Asn	Asn	Thr	Asn	Ser	Ser	Asn	Ser
271		930				935							940			
273	tct	cac	ctc	tcc	aga	aac	cag	agg	ttt	ggc	agg	gga	gac	aac	ccg	ccg
274	Ser	His	Leu	Ser	Arg	Asn	Gln	Ser	Phe	Gly	Arg	Gly	Asp	Asn	Pro	Pro
275		945				950				955			960			
277	ccc	gcc	ccg	cag	agg	gtg	gac	tcc	atc	cag	gtg	cac	agc	tcc	cag	cca
278	Pro	Ala	Pro	Gln	Arg	Val	Asp	Ser	Ile	Gln	Val	His	Ser	Ser	Gln	Pro
279						965			970			975				
281	tct	ggc	cag	gcc	gtg	act	gtc	tcg	agg	cag	ccc	agc	ctc	aac	gcc	tac
282	Ser	Gly	Gln	Ala	Val	Thr	Val	Ser	Arg	Gln	Pro	Ser	Leu	Asn	Ala	Tyr
283		980				985			990			995				
285	aac	tca	ctg	aca	agg	tcg	ggg	ctg	aag	cgt	acg	ccc	tcg	cta	aag	ccg
286	Asn	Ser	Leu	Thr	Arg	Ser	Gly	Leu	Lys	Arg	Thr	Pro	Ser	Leu	Lys	Pro
287		995				1000			1005			1010				
289	gac	gta	ccc	ccc	aaa	cca	tcc	ttt	gct	ccc	ctt	tcc	aca	tcc	atg	aag
290	Asp	Val	Pro	Pro	Lys	Pro	Ser	Phe	Ala	Pro	Leu	Ser	Thr	Ser	Met	Lys
291		1010				1015			1020							3093
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308	Gly	Ala	Gly	Phe	Pro	Glu	Asp	Ser	Glu	Pro	Ile	Ser	Ile	Ser	His	Gly
309				20					25					30		
311	Asn	Tyr	Thr	Lys	Gln	Tyr	Pro	Val	Phe	Val	Gly	His	Lys	Pro	Gly	Arg
312		35				40				45						
314	Asn	Thr	Thr	Gln	Arg	His	Arg	Leu	Asp	Ile	Gln	Met	Ile	Met	Ile	Met
315		50			55				60							
317	Asn	Gly	Thr	Leu	Tyr	Ile	Ala	Ala	Arg	Asp	His	Ile	Tyr	Thr	Val	Asp
318		65			70				75					80		
320	Ile	Asp	Thr	Ser	His	Thr	Glu	Glu	Ile	Tyr	Cys	Ser	Lys	Lys	Leu	Thr
321					85				90					95		
323	Trp	Lys	Ser	Arg	Gln	Ala	Asp	Val	Asp	Thr	Cys	Arg	Met	Lys	Gly	Lys
324					100				105					110		
326	His	Lys	Asp	Glu	Cys	His	Asn	Phe	Ile	Lys	Val	Leu	Leu	Lys	Lys	Asn
327					115				120					125		
329	Asp	Asp	Ala	Leu	Phe	Val	Cys	Gly	Thr	Asn	Ala	Phe	Asn	Pro	Ser	Cys
330					130				135					140		
332	Arg	Asn	Tyr	Lys	Met	Asp	Thr	Leu	Glu	Pro	Phe	Gly	Asp	Glu	Phe	Ser
333		145				150				155					160	
335	Gly	Met	Ala	Arg	Cys	Pro	Tyr	Asp	Ala	Lys	His	Ala	Asn	Val	Ala	Leu

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/09/856,681

DATE: 10/16/2001  
TIME: 18:00:23

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\10162001\I856681.raw